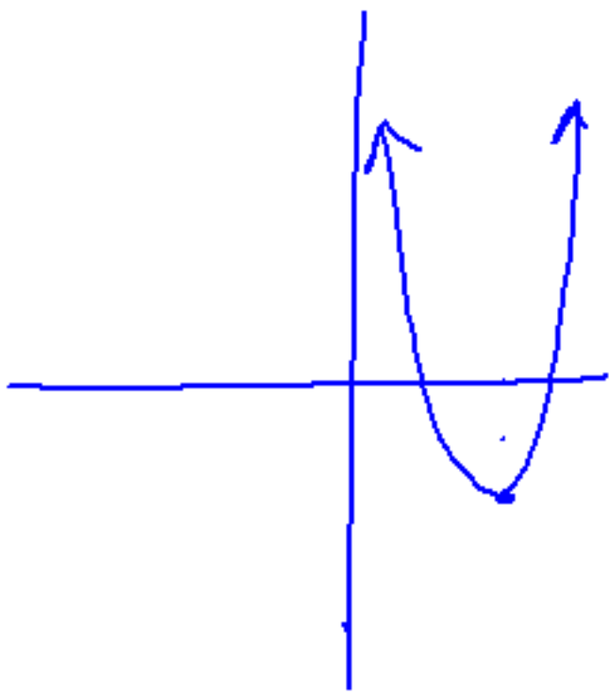
# HW Answers

① vertex: $(3, -2)$

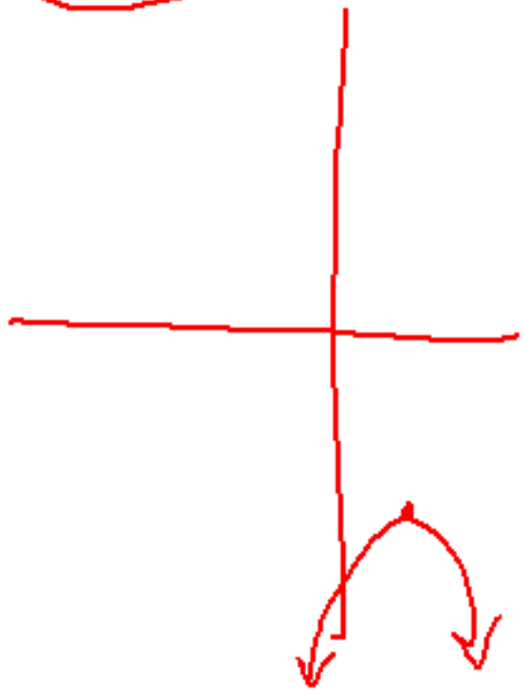


② $x = \frac{-4}{-2} = 2$ $\quad x = \frac{-b}{2a}$

$y = -(2)^2 + 4(2) - 8$

$y = -4$

vertex: $(2, -4)$

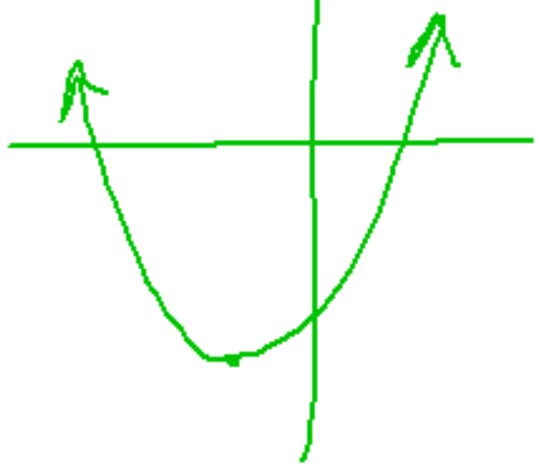


③ $x = \frac{-4+2}{2} = -1$

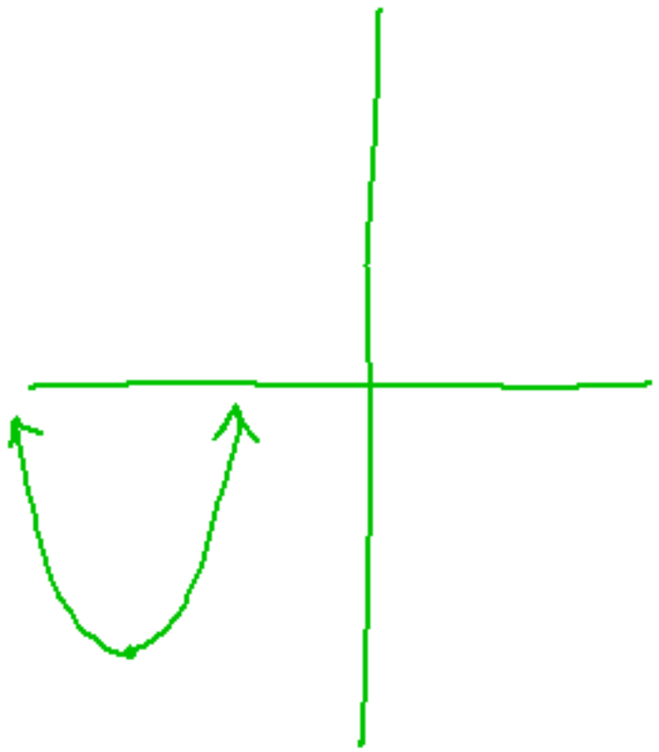
$y = \frac{1}{2}(-1+4)(-1-2)$

$y = -4.5$

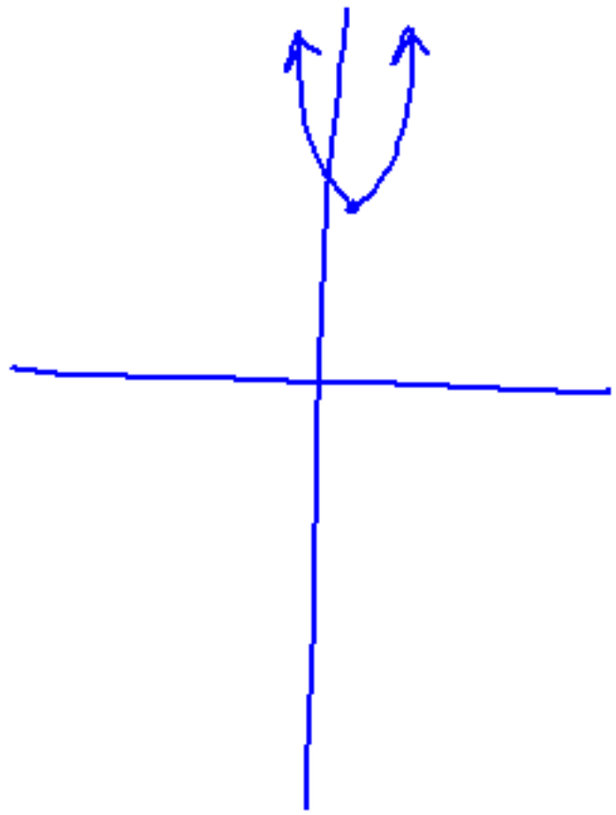
vertex: $(-1, -4.5)$



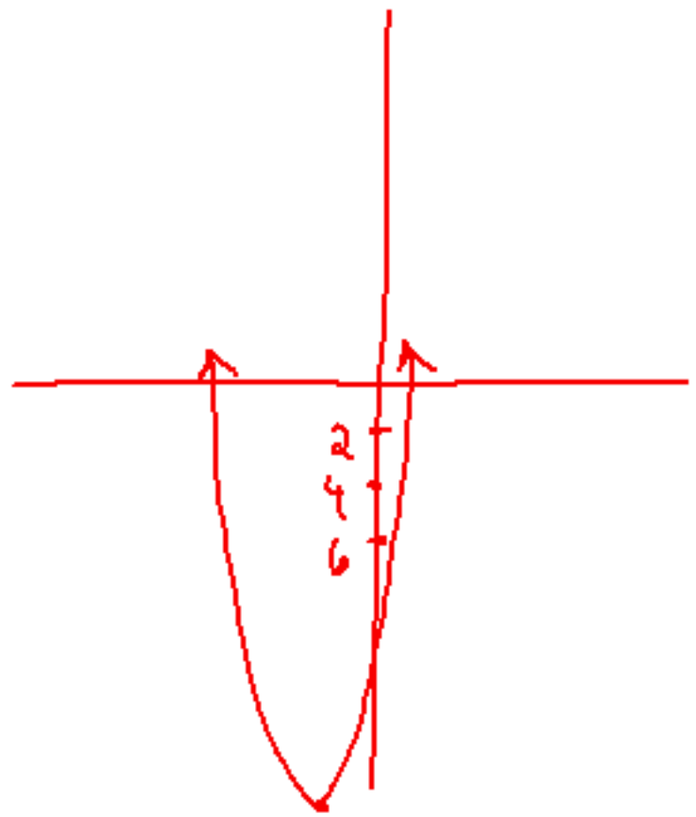
④ vertex: $(-6, -4)$



⑤ vertex: $(0.25, 2.75)$



⑥ vertex: $(-1, -16)$



p.261

65) $(x+1)(x-4)=0$

$x=-1, 4$

67) $(5x-3)(x-2)=0$

$x=3/5, 2$

72) $(4a)(10a+1)=0$

$a=0, -1/10$

74) $(x+4)(x+5)=0$

$x=-4, -5$

76) $p^2-49=0$

$(p-7)(p+7)=0$

$p=7, -7$

(6) $5x^2 - 13x + 6 = 0$

$(5x - 3)(x - 2) = 0$

$6$

$6, 1$

$3, 2$

$15x$

$2x$

$5x - 3 = 0$

$5x = 3$

$x = 3/5$

$x - 2 = 0$

$x = 2$

(72) $40a^2 + 4a = 0$

$(4a)(10a + 1) = 0$

$4a = 0$ $\qquad$ $10a + 1 = 0$

$a = 0$ $\qquad$ $a = -1/10$

( )( ) =

(76) $5p^2 - 25 = 4p^2 + 24$

$-4p^2 \quad -24 \quad -4p^2 \quad -24$

$p^2 - 49 = 0$

$+0p$

$(p+7)(p-7) = 0$

$p+7=0$ $\qquad$ $p-7=0$

$$-5x^2-9x+2=0$$

$$-(5x^2+9x-2)=0$$

$$-(5x-1)(x+2)=0$$

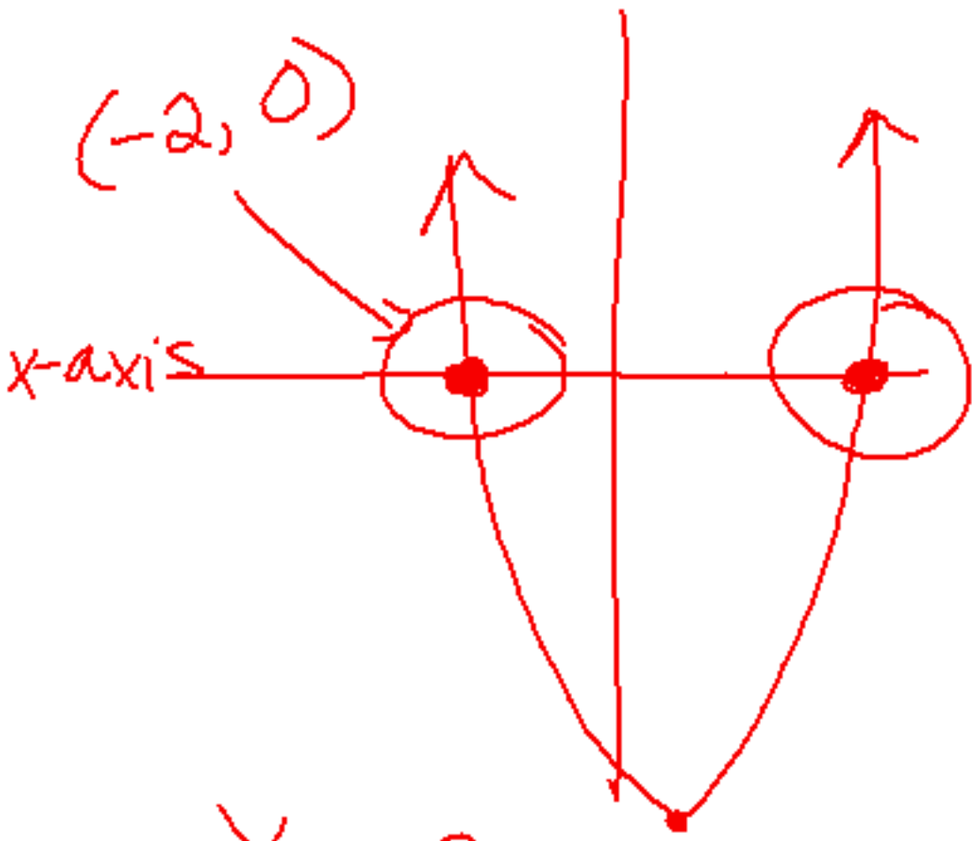
$$-0.50$$

$$(x+3)(x+3)=0$$

① $(1/2, -6.25)$

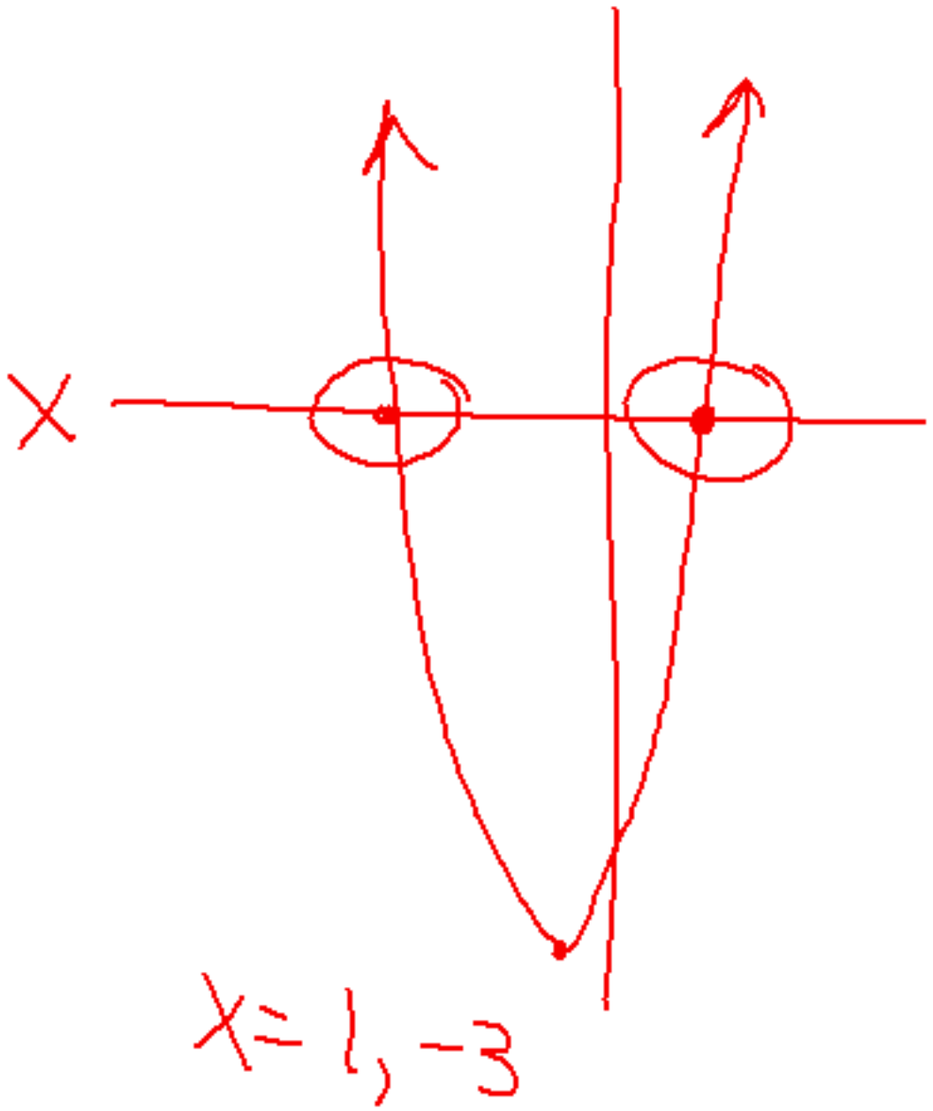
$x^2 - x - 6 = y$

$y = 0$




$x = -2, 3$

② $(-1, -8)$



$x = 1, -3$

④ $x = -7/3, 1$